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HYDROLOGICAL MEMORANDUM 12

RAINFALL OVER THE AREAS OF THE DEVON AND CORNWALL RIVER BOARDS 1916—50

by

Miss H. Rowsell

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HYDROLOGICAL MEMORANDUM NO. 12

RAINFALL OVER THE AREAS OF THE DEVON AND CORNWALL RIVER BOARDS 1916-1950

Introduction

The estimation of standard-period average for the months or for the year, is carried out in three stages; the selection of sound, homogeneous records complete for the 35 years, 1916-1950, which provide arithmetic means of monthly and annual rainfall, the basic values for all other work; the estimation of standard-period, annual averages for short-period stations; the estimation of standard-period, monthly averages for stations in the second group, where these are needed for special purposes.

A detailed account of the methods developed and used in the Meteorological Office (Met O. 3) to estimate standard-period averages from short-period records, is given in Hydrological Memorandum No. 5.

It is possible to process the data in a number of ways but the maps and tables are presented here in the simplest, most precise forms in order to be of use to a wide range of enquirers.

1. The Primary Survey

The Primary Survey, for Great Britain and Northern Ireland, of stations with complete records during 1916-1950, included some cases where the site had been changed to one with a better exposure and observations from both sites had been recorded for a few years. Attempts were made to amend the earlier readings by comparison of the data during a period of overlap, in order to have a set of values from 1916, to the date of the change, which would be representative of the later, and better, record. But since the earlier exposures were usually unsatisfactory (being over-exposed or over-sheltered), the results were mostly erratic and the amended sets of values were not homogeneous. In a few cases, small breaks in a long record were completed by using estimated values, based on a nearby station, with or without the use of a modifying factor.

Of the many records examined, monthly and annual averages were accepted for 34 stations, 15 for the Devon River Board and 19 for the Cornwall River Board. The accepted values (in inches), together with the proportions (per cent) of each monthly average to the annual average, are given in Table I together with the altitude and the National Grid reference for each station. Most of these averages were included in Met O 635, *Averages of Rainfall for Great Britain and Northern Ireland, 1916-1950* (HMSO, 1958); some were omitted because other stations were so near.

The percentage proportion of monthly averages to the annual averages for the long-period stations were used to draw a series of twelve monthly maps from which it is possible to estimate the percentage of average annual rainfall, for any place, for each month of the year. These maps are shown as Figure 1. Values estimated for a few points between the isopercental lines have been added to give a clearer indication of the variations from place to place. The points chosen are not necessarily the same for each map.

2. The Secondary Survey

The secondary Survey of short-period stations was undertaken next, using records up to the time of the survey, usually into the late 1950s. Long-period stations, whose averages had been rejected from the Primary Survey because the record was not homogeneous, were examined again and averages were estimated for the later (and usually improved) part of the series of observations. Averages based on data for less than 5 years were not usually accepted for publication. A list of the accepted averages for the short-period stations, is given in Table II together with the altitude and National Grid reference for each. The stations are listed in an order based on natural drainage areas which will be used for the first time in British Rainfall, 1961.

These averages, together with the long-period averages listed in Table I, were plotted on Ordnance Survey maps (scale 4 miles to the inch), and used to draw the lines of average annual rainfall, 1916-1950. The map is shown as Figure 2. The Secondary Survey is frequently revised for special areas using the most up-to-date

observations for relatively new stations and the map is subject to revision from time to time. The redrawing of the isohyets usually results in greater detail and perhaps a clearer definition of a wet area as more and more observations become available from improved River Board networks of rain-gauges. Drastic changes are not expected. In Tables, I, II and III with a few exceptions the average quoted are for records still being maintained in 1963.

3. Monthly Averages

Monthly averages for a further group of stations were next estimated for use in the *Monthly Weather Report* and for enquiries. For this purpose some stations were chosen from those listed in Table II to supplement those listed in Table I. To find the monthly averages, the monthly proportions (per cent of annual average) were chosen from the equipercental maps (see Fig. 1) so that the total for the twelve months was 100. These monthly percentages were then used to apportion the annual average (in inches) amongst the months. The results are given in Table III.

4. Daily Rainfall 1916-50

Six of the initial 34 records which were accepted for the Primary Survey were analysed further. These records had regular daily entries, for the 24-hour period 0900 to 0900, for each of the 35 years, 1916-1950. Table IVa gives, for each of the stations, the 35-year totals for each day of the year (in inches). Table IVb gives 1/35 of all possible totals from 0.17 in. to 24.67 in., thus providing a reduction table for the values in IVa to give average daily falls from 'trace' to 0.70 in. For 29 February the reduction factor is, of course, 1/9.

These daily averages can be re-grouped as 5-day means, 7-day means, consecutive or sliding means or in whatever form suits a specific requirement.

5. Frequencies of Daily Rainfall 1916-1950.

The same set of daily values used for Table IVa were re-grouped to give frequency tables with intervals of 0.01 inch. These have been re-arranged in Table V, to give accumulated frequencies with intervals of 0.10 in. up to 2.50 in. and a wider grouping above this.

6. Extremes of Rainfall

The records for the 35-year period, 1916-1950, for the stations used in Tables IV and V were also used to find maximum and minimum values for the year and for each month and also maximum daily values for each month. These maxima are given in Table VI and Table VII. Additional extremes are given in these tables to cover the 50-year period, 1911-1960.

7. Intense Falls

Falls of 2 hours or less, which have been recorded in *British Rainfall* and rank as 'noteworthy', 'remarkable' or 'very rare', are listed in Appendix I.

TABLE I Monthly and annual averages of rainfall *(in inches)* 1916-50, over the areas of the Devon and Cornwall River Boards

County and Station	NGR	Altitude *metres*	Altitude *feet*	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	Year	
Somerset																	
Cricket St Thomas	ST 374088	135	444	4.46	3.24	2.79	2.60	2.66	1.96	3.09	3.18	3.22	4.26	4.84	4.65	40.95	*inches*
				10.9	*7.9*	*6.8*	*6.3*	*6.5*	*4.8*	*7.5*	*7.8*	*7.9*	*10.4*	*11.8*	*11.4*	*100.0*	%
Dorset																	
Forde Abbey	ST 359052	61	200	4.38	3.04	2.68	2.54	2.53	1.84	2.88	3.03	3.01	3.91	4.77	4.52	39.18	*inches*
				11.2	*7.8*	*6.8*	*6.5*	*6.5*	*4.7*	*7.3*	*7.7*	*7.7*	*10.1*	*12.2*	*11.5*	*100.0*	%
South Devon																	
Exmouth Filters	SY 027819	73	240	3.43	2.39	2.38	2.16	2.28	1.74	2.27	2.56	2.62	3.09	3.57	3.54	32.00	*inches*
				10.7	*7.5*	*7.4*	*6.7*	*7.0*	*5.4*	*7.1*	*8.0*	*8.2*	*9.7*	*11.2*	*11.1*	*100.0*	%
Exeter Institution	SX 921926	47	155	3.56	2.54	2.32	2.06	2.14	1.64	2.29	2.47	2.44	3.08	3.76	3.60	31.90	*inches*
				11.2	*8.0*	*7.3*	*6.5*	*6.7*	*5.1*	*7.2*	*7.7*	*7.6*	*9.6*	*11.8*	*11.3*	*100.0*	%
Copplestone	SS 771020	99	325	4.04	2.87	2.39	2.38	2.29	1.80	2.70	2.90	2.77	3.74	4.15	3.96	35.99	*inches*
				11.2	*8.0*	*6.6*	*6.6*	*6.4*	*5.0*	*7.5*	*8.1*	*7.7*	*10.4*	*11.5*	*11.0*	*100.0*	%
Teignmouth	SX 941728	6	20	3.77	2.69	2.51	2.13	2.27	1.67	2.18	2.46	2.55	3.25	3.90	3.85	33.23	*inches*
				11.3	*8.1*	*7.6*	*6.4*	*6.8*	*5.0*	*6.6*	*7.4*	*7.7*	*9.8*	*11.7*	*11.6*	*100.0*	%
Laployd	SX 807849	317	1041	6.10	3.92	3.43	3.09	2.98	2.10	3.00	3.36	3.47	4.64	5.94	5.91	47.97	*inches*
				12.7	*8.2*	*7.2*	*6.4*	*6.2*	*4.4*	*6.3*	*7.0*	*7.2*	*9.7*	*12.4*	*12.3*	*100.0*	%
Shaldon Reservoir	SX 927713	65	213	4.27	2.94	2.72	2.34	2.50	1.87	2.46	2.74	2.89	3.66	4.55	4.35	37.29	*inches*
				11.5	*7.9*	*7.3*	*6.3*	*6.7*	*5.0*	*6.6*	*7.3*	*7.7*	*9.8*	*12.2*	*11.7*	*100.0*	%
Hazeldown Reservoir	SX 935745	130	427	3.98	2.80	2.67	2.35	2.50	1.93	2.48	2.83	2.82	3.60	4.21	4.09	36.26	*inches*
				11.0	*7.7*	*7.4*	*6.5*	*6.9*	*5.3*	*6.8*	*7.8*	*7.8*	*9.9*	*11.6*	*11.3*	*100.0*	%
Torquay	SX 909637	8	26	4.10	2.87	2.63	2.26	2.27	1.77	2.15	2.64	2.64	3.32	4.26	4.07	34.98	*inches*
				11.7	*8.2*	*7.5*	*6.5*	*6.5*	*5.1*	*6.1*	*7.6*	*7.5*	*9.5*	*12.2*	*11.6*	*100.0*	%
Princetown Prison	SX 586741	414	1359	10.82	6.83	5.89	5.18	4.89	4.53	6.58	6.70	6.65	9.05	10.25	10.26	87.63	*inches*
				12.4	*7.8*	*6.7*	*5.9*	*5.6*	*5.2*	*7.5*	*7.6*	*7.6*	*10.3*	*11.7*	*11.7*	*100.0*	%
North Devon																	
Melbury Reservoir	SS 386201	157	515	6.38	4.14	3.21	3.07	2.97	2.83	4.27	4.38	4.72	6.26	6.67	6.35	55.25	*inches*
				11.6	*7.5*	*5.8*	*5.6*	*5.4*	*5.1*	*7.7*	*7.9*	*8.5*	*11.3*	*12.1*	*11.5*	*100.0*	%
Challacombe	SS 689410	276	904	7.47	5.11	3.72	3.87	3.41	3.34	4.93	5.80	5.70	7.09	7.51	7.44	65.39	*inches*
				11.4	*7.8*	*5.7*	*5.9*	*5.2*	*5.1*	*7.5*	*8.9*	*8.7*	*10.9*	*11.5*	*11.4*	*100.0*	%
Ilfracombe Reservoir	SS 505453	120	395	5.08	3.49	2.92	2.90	2.83	2.63	4.18	4.18	4.30	5.38	5.35	5.25	48.49	*inches*
				10.5	*7.2*	*6.0*	*6.0*	*5.9*	*5.4*	*8.6*	*8.6*	*8.9*	*11.1*	*11.0*	*10.8*	*100.0*	%
Ilfracombe	SS 520478	8	25	4.11	2.80	2.44	2.29	2.25	1.92	2.98	3.15	3.34	4.37	4.30	4.38	38.33	*inches*
				10.7	*7.3*	*6.4*	*6.0*	*5.9*	*5.0*	*7.8*	*8.2*	*8.7*	*11.4*	*11.2*	*11.4*	*100.0*	%
South Devon																	
Leather Tor Farm	SX 566698	277	910	7.13	4.86	4.20	3.73	3.56	3.26	4.61	4.88	4.86	6.48	7.39	7.32	62.28	*inches*
				11.5	*7.8*	*6.7*	*6.0*	*5.7*	*5.2*	*7.4*	*7.8*	*7.8*	*10.4*	*11.9*	*11.8*	*100.0*	%
Deancombe Farm	SX 578687	246	807	7.57	5.27	4.46	3.87	3.72	3.25	4.85	5.10	5.07	6.88	7.90	7.90	65.84	*inches*
				11.5	*8.0*	*6.8*	*5.9*	*5.7*	*4.9*	*7.4*	*7.7*	*7.7*	*10.4*	*12.0*	*12.0*	*100.0*	%
Sheepstor, Head Weir	SX 553687	226	740	7.25	4.88	4.13	3.59	3.56	3.24	4.72	4.78	4.84	6.57	7.38	7.36	62.30	*inches*
				11.6	*7.8*	*6.6*	*5.8*	*5.7*	*5.2*	*7.6*	*7.7*	*7.8*	*10.5*	*11.9*	*11.8*	*100.0*	%

TABLE I Monthly and annual averages (continued)

County and Station	NGR	Altitude metres	Altitude feet	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	Year	
South Devon																	
Sheepstor, Redstone	SX 558682	232	760	7.35	4.94	4.18	3.56	3.59	3.22	4.69	4.80	4.90	6.51	7.43	7.41	62.58	*inches*
				11.7	*7.9*	*6.7*	*5.7*	*5.7*	*5.2*	*7.5*	*7.7*	*7.8*	*10.4*	*11.9*	*11.8*	*100.0*	%
Hartley Reservoir	SX 486569	98	321	4.89	3.42	2.98	2.52	2.68	2.30	3.04	3.33	3.25	4.40	5.13	5.12	43.06	*inches*
				11.4	*7.9*	*6.9*	*5.9*	*6.2*	*5.3*	*7.1*	*7.7*	*7.6*	*10.2*	*11.9*	*11.9*	*100.0*	%
Plymouth, The Hoe	SX 478537	36	118	4.29	3.08	2.73	2.20	2.37	2.00	2.57	2.88	2.89	3.81	4.46	4.48	37.76	*inches*
				11.4	*8.2*	*7.2*	*5.8*	*6.3*	*5.3*	*6.8*	*7.6*	*7.6*	*10.1*	*11.8*	*11.9*	*100.0*	%
Cornwall																	
Laundue	SX 349797	76	250	5.20	3.53	3.07	2.60	2.72	2.13	3.01	3.52	3.35	4.77	5.31	5.34	44.55	*inches*
				11.7	*7.9*	*6.9*	*5.8*	*6.1*	*4.8*	*6.8*	*7.9*	*7.5*	*10.7*	*11.9*	*12.0*	*100.0*	%
St Austell	SX 018525	94	310	5.63	4.07	3.50	2.93	3.06	2.32	3.39	3.60	3.58	5.02	5.63	5.63	48.36	*inches*
				11.6	*8.4*	*7.2*	*6.1*	*6.3*	*4.8*	*7.0*	*7.5*	*7.4*	*10.4*	*11.6*	*11.7*	*100.0*	%
Truro, Waterworks	SW 847464	18	59	5.38	3.79	3.32	2.66	2.77	2.10	3.01	3.10	3.15	4.68	5.33	5.32	44.61	*inches*
				12.1	*8.5*	*7.4*	*6.0*	*6.2*	*4.7*	*6.7*	*7.0*	*7.1*	*10.5*	*11.9*	*11.9*	*100.0*	%
Trevince	SW 737403	73	240	5.51	3.89	3.64	2.89	2.90	2.28	3.25	3.48	3.58	5.09	5.67	5.59	47.74	*inches*
				11.5	*8.1*	*7.6*	*6.1*	*6.1*	*4.8*	*6.8*	*7.2*	*7.5*	*10.7*	*11.9*	*11.7*	*100.0*	%
Falmouth	SW 802325	51	167	5.20	3.73	3.17	2.62	2.60	1.98	2.80	3.04	3.07	4.62	5.19	5.28	43.30	*inches*
				12.0	*8.6*	*7.3*	*6.0*	*6.0*	*4.6*	*6.5*	*7.0*	*7.1*	*10.7*	*12.0*	*12.2*	*100.0*	%
Penzance	SW 473300	19	62	5.01	3.50	3.17	2.51	2.44	1.96	2.74	2.95	3.15	4.36	4.90	4.84	41.53	*inches*
				12.1	*8.4*	*7.6*	*6.0*	*5.9*	*4.7*	*6.6*	*7.1*	*7.6*	*10.5*	*11.8*	*11.7*	*100.0*	%
Trewidden	SW 443296	83	275	5.28	3.78	3.33	2.75	2.59	2.16	3.05	3.25	3.48	4.71	5.25	5.14	44.77	*inches*
				11.8	*8.5*	*7.4*	*6.1*	*5.8*	*4.8*	*6.8*	*7.3*	*7.8*	*10.5*	*11.7*	*11.5*	*100.0*	%
St Mary's, Scilly	SV 913120	48	158	3.55	2.72	2.52	2.11	2.17	1.74	2.22	2.52	2.46	3.57	3.61	3.52	32.71	*inches*
				10.9	*8.3*	*7.7*	*6.5*	*6.6*	*5.3*	*6.8*	*7.7*	*7.5*	*10.9*	*11.0*	*10.8*	*100.0*	%
Tresco Abbey, Scilly	SV 893143	12	40	3.79	2.89	2.60	2.13	2.29	1.73	2.31	2.47	2.56	3.67	3.80	3.76	34.00	*inches*
				11.1	*8.5*	*7.6*	*6.3*	*6.7*	*5.1*	*6.8*	*7.3*	*7.5*	*10.8*	*11.2*	*11.1*	*100.0*	%
Newquay	SW 812614	53	175	3.80	2.68	2.31	1.94	2.18	1.78	2.65	2.68	2.64	3.76	3.94	3.82	34.18	*inches*
				11.1	*7.8*	*6.8*	*5.7*	*6.4*	*5.2*	*7.8*	*7.8*	*7.7*	*11.0*	*11.5*	*11.2*	*100.0*	%
Stannon Clay Works	SX 125805	232	760	6.64	4.73	3.71	3.46	3.46	3.18	4.64	4.82	4.83	6.16	6.97	6.69	59.29	*inches*
				11.2	*8.0*	*6.3*	*5.8*	*5.8*	*5.4*	*7.8*	*8.1*	*8.1*	*10.4*	*11.8*	*11.3*	*100.0*	%
Bodmin	SX 076673	148	484	5.50	3.97	3.42	2.81	3.12	2.49	3.56	3.95	3.82	4.96	5.80	5.50	48.90	*inches*
				11.2	*8.1*	*7.0*	*5.8*	*6.4*	*5.1*	*7.3*	*8.1*	*7.8*	*10.1*	*11.9*	*11.2*	*100.0*	%
Bude	SS 208063	15	50	3.69	2.52	2.15	1.94	2.10	1.79	2.68	2.82	2.96	3.77	3.94	3.81	34.17	*inches*
				10.8	*7.4*	*6.3*	*5.7*	*6.1*	*5.2*	*7.8*	*8.3*	*8.7*	*11.0*	*11.5*	*11.2*	*100.0*	%

TABLE II Estimated annual averages of rainfall, *(in inches)*, 1916-50, for short-period stations in the areas of The Devon and Cornwall River Boards

County and Station	NGR	Altitude *metres*	Altitude *feet*	Average *inches*
DEVON RIVER BOARD				
Somerset				
Wayford Manor	ST405067	128	420	39.15
South Devon				
Hawkchurch	ST343004	88	290	38.72
Cotleigh House	ST207022	164	540	43.88
Seaton Junction	SY249965	35	114	37.95
Colyford	SY244923	34	110	36.64
Beer, Windyridge	SY225894	61	200	34.07
Sidmouth	SY124873	8	25	30.91
Somerset				
Otterhead	ST226138	250	819	44.42
South Devon				
Feniton Court	SY109995	91	300	37.72
Ottery St Mary	SY088953	53	175	38.53
Broad Oak	SY071928	91	300	37.25
Yettington Intakes	SY038858	91	300	34.10
Budleigh Salterton	SY043832	113	370	33.89
Budleigh Salterton, Squabmoor	SY039839	81	267	33.64
Exmouth	SY015813	29	195	33.30
Exmouth, Salterton Road	SY015813	29	195	32.13
Exeter	SX995937	32	106	33.45
Redhay	SX971935	46	150	32.28
Somerset				
Lowerthorne	SS843384	305	1000	62.97
Winsford	SS905345	189	620	53.17
Honeymead	SS796381	381	1250	63.83
Kinsford Gate	SS745365	457	1500	79.93
Dulverton, The Cottage	SS925279	137	450	52.85
East Anstey	SS875266	259	850	53.33
South Devon				
Morebath Manor	SS958257	182	600	45.93
Cowley Lodge	SS965132	76	250	36.66
Hemyock	ST139126	184	606	40.75
Culm Davy House	ST124146	156	512	35.83
Woodgate Farm	ST102152	164	540	35.23
Uffculme	ST068129	97	320	34.51
Halberton	ST016131	91	300	35.08
Silverton	SS958032	91	300	33.16
Crediton, Okefield	SS832006	91	300	31.68
Crediton, Hayward School	SS837001	58	190	33.07
Heavitree	SX943920	34	112	32.26
Shillingford, St George	SX905880	52	170	36.34
Trood House	SX926889	24	80	35.30
Kenton	SX958834	18	60	34.65
Starcross	SX972821	9	29	33.93
Dawlish, Beach House	SX969774	24	80	34.17
Luscombe Castle	SX943768	53	175	40.20
Holcombe	SX953751	61	200	37.55
Landscore Reservoir	SX938737	41	136	35.40
White Ridge	SX650824	488	1600	81.50
Hurston Ridge	SX668828	411	1350	79.42
Thornworthy Down	SX664846	353	1160	70.83
Thornworthy	SX670850	351	1150	70.39
Newton Barton	SX711921	213	700	37.30
Smithacott	SX798848	259	850	45.73
Tottiford	SX808824	240	790	46.18
Hazelwood	SX830805	198	650	42.79
Yarner Wood	SX786792	121	400	52.03
Newton Abbot	SX828729	82	272	39.57
Torquay, Lydwell Court	SX928646	125	410	36.43
Paignton	SX890609	2	8	38.67

TABLE II Estimated annual averages (continued)

County and Station	NGR	Altitude *metres*	Altitude *feet*	Average *inches*
Brixham, Rea Dam Road	SX929556	50	164	38.07
Beardown Hill	SX605767	475	1560	90.83
Cowsic Valley	SX595767	403	1323	81.16
Princetown	SX587748	394	1293	77.97
Fox Tor	SX620704	353	1160	75.18
Swincombe	SX635718	319	1047	75.23
Hele House	SX743703	107	350	51.76
Ashburton	SX764712	122	400	53.27
Ashburton, West Street	SX756695	72	236	54.90
Totnes	SX788620	37	120	47.05
Broadhempston	SX804660	58	190	42.50
Dartmouth, Public Gardens	SX879515	3	9	41.74
Bala Brook	SX675627	232	760	83.62
Didworthy	SX686621	206	675	70.63
Badworthy	SX685617	168	550	73.70
Hazelwood House	SX727522	85	280	49.73
Wrangaton	SX666575	198	650	61.46
North Devon				
Hartland Point	SS231277	91	299	36.35
Clovelly Court	SS310250	91	300	51.80
Westward Ho	SS443297	3	10	39.18
Shebbear	SS447094	164	540	47.94
Cranmere Pool	SX604857	562	1845	79.35
Okehampton Waterworks	SX587938	262	860	54.49
Newbridge	SX596903	457	1500	69.38
Okehampton Pleasure Gardens	SX591948	161	530	55.24
Winkleigh, Places	SS619085	152	500	37.33
Torrington, Rack Park	SS490193	91	300	40.63
Jennett's Reservoir	SS445246	19	62	38.22
Gammaton Reservoir	SS483253	107	350	36.65
North Tawton	SS672022	164	537	37.33
Bow	SS726018	122	400	36.77
East Anstey, Barton House	SS867266	231	760	49.64
West Buckland School	SS667314	198	650	45.88
Chivenor	SS494347	6	20	35.85
Stowford House	SS633266	84	275	39.77
Chains Barrow	SS735420	484	1587	78.57
Somerset				
Longstone Barrow	SS708428	472	1550	72.95
Yealmpton	SX577512	37	120	43.81
Mount Batten	SX492529	27	87	37.93
Double Waters	SX575723	355	1165	68.02
Siward's Cross	SX595699	327	1074	72.01
Lowery	SX557694	274	899	60.25
Burrator	SX553680	230	755	60.63
Dousland Reservoir	SX539690	218	714	57.13
Lee Moor House	SX573628	268	880	61.42
Little Woodford	SX531571	24	80	44.43
Plymouth, Freedom Field	SX488553	63	208	39.25
Drakes Reservoir	SX481551	45	149	38.54
Maristow Garden	SX472640	15	50	52.97
Horrabridge	SX511700	88	290	53.36
Pyworthy Rectory	SS311021	131	430	41.47
Holsworthy	SS343040	145	476	45.32
Cornwall				
Ditchen	SX309947	139	455	43.15
South Devon				
Werrington Park	SX333872	98	320	43.70
Cornwall				
Tregeare	SX242864	165	540	48.63
South Devon				
Prewley	SX548910	322	1057	61.59
Coryton Manor	SX473848	140	460	52.05
Cornwall				
Pentillie Castle	SX406647	46	150	49.37
Ellbridge	SX401632	58	190	41.22

TABLE II Estimated annual averages (continued)

County and Station	NGR	Altitude		Average
		metres	*feet*	*inches*
Bastreet, North Hill, Old Site	SX244765	236	775	55.99
Lerryn	SX142573	12	40	44.41
Trethurgy	SX042553	137	450	53.49
St Mawes	SW853330	18	60	38.30
Hendra Pumping Station	SW966518	71	234	48.10
Ladock Pumping Station	SW891511	30	98	42.59
Penryn Reservoir	SW778336	72	236	44.98
Mawnan	SW787274	62	205	42.54
Wendron	SW678307	140	458	44.79
Culdrose	SW669264	82	268	34.24
Poltesco	SW723158	37	120	38.84
Lizard	SW701119	72	235	32.97
St Michael's Mount	SW516300	5	16	33.93
Gulval	SW486317	15	50	39.63
Trengwainton House	SW445313	113	370	45.53
Porthcurno	SW385227	55	180	33.92
Tresco	SV900145	5	15	32.50
St Ives, Halsetown Vicarage	SW508401	99	324	42.51
St Erith	SW543359	15	50	39.73
Rosewarne	SW643412	76	250	38.13
Boswyn Reservoir	SW660362	156	511	47.51
St Agnes	SW721504	97	318	39.63
Trevone	SW889759	8	25	32.83
Padstow, The Nook	SW914755	34	110	37.33
Trevanson	SW978729	30	100	40.68
Camelford, Roughtor View	SX104832	213	700	58.63
Lower Moor	SX128831	271	890	60.07
Delabole No. 1	SX075835	198	650	45.78
Trebetherick	SW93772	46	150	36.28
Bossiney	SX064889	88	290	39.62

TABLE III Monthly and annual averages of rainfall (in inches), 1916-50, for short-period stations in the areas of the Devon and Cornwall River Boards

County and Station	NGR	Altitude *metres*	Altitude *feet*	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	Year
South Devon																
Exmouth	SY015813	59	195	3.56	2.50	2.46	2.23	2.33	1.80	2.37	2.66	2.73	3.23	3.73	3.70	33.30
Exeter	SX995937	32	106	3.78	2.68	2.34	2.14	2.21	1.71	2.47	2.71	2.61	3.24	3.88	3.68	33.45
Crediton Okefield	SS832006	91	300	3.49	2.50	2.12	2.12	2.09	1.58	2.35	2.60	2.50	3.17	3.64	3.52	31.68
Starcross	SX972821	9	29	3.73	2.58	2.51	2.27	2.31	1.77	2.44	2.68	2.61	3.33	3.90	3.80	33.93
Newton Abbott	SX828729	82	272	4.71	3.20	2.89	2.49	2.53	1.90	2.61	2.93	2.97	3.84	4.79	4.71	39.57
Paignton	SX890609	2	8	4.53	3.17	2.90	2.51	2.51	1.97	2.36	2.94	2.90	3.67	4.72	4.49	38.67
Totnes	SX788620	37	120	5.60	3.86	3.48	2.97	2.96	2.26	3.01	3.48	3.48	4.56	5.74	5.65	47.05
Okehampton, Pleasure Gardens	SX591948	161	530	6.68	4.53	3.70	3.59	3.09	2.65	3.87	4.14	4.20	5.80	6.58	6.41	55.24
Mount Batten	SX492529	27	87	4.33	3.11	2.73	2.20	2.39	2.01	2.58	2.88	2.88	3.83	4.48	4.51	37.93
Cornwall																
Ellbridge	SX401632	58	190	4.66	3.21	2.80	2.39	2.60	2.18	2.97	3.22	3.17	4.29	4.82	4.91	41.22
Lizard	SW701119	72	235	3.96	2.84	2.41	2.01	1.98	1.65	2.14	2.37	2.37	3.46	3.89	3.89	32.97
Gulval	SW486317	15	50	4.79	3.33	3.01	2.38	2.34	1.86	2.62	2.81	3.01	4.16	4.68	4.64	39.63
Rosewarne	SW643412	76	250	4.42	3.20	2.90	2.33	2.33	1.83	2.55	2.75	2.90	4.00	4.50	4.42	38.13

TABLE IVa 35-year totals of daily rainfall *(in inches)*, 1916-50, over the areas of the Devon and Cornwall River Boards

	COPLESTONE												SHEEPSTOR, REDSTONE											
Day	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec
1	4.99	5.68	2.22	3.14	2.08	3.31	3.38	4.46	4.48	2.47	7.05	6.31	1	12.28	9.78	4.59	5.94	2.78	4.73	6.58	6.57	7.23	4.43	12.83	14.43
2	3.28	4.86	1.36	4.02	2.18	1.80	1.63	2.09	3.39	2.20	4.50	4.25	2	7.80	8.24	4.16	5.25	2.26	2.59	4.68	3.46	6.91	3.81	7.77	8.43
3	3.02	5.48	3.47	4.39	2.83	1.22	2.91	4.51	4.23	3.55	6.12	3.60	3	8.05	8.89	5.25	5.57	3.81	3.62	5.63	7.10	7.58	7.03	8.21	5.36
4	3.98	4.00	4.01	3.20	3.52	1.77	2.17	2.67	1.98	4.03	4.00	5.75	4	4.94	6.06	5.99	4.93	5.60	3.70	6.60	6.85	5.31	7.76	8.09	9.55
5	4.08	3.99	4.29	3.82	2.58	3.85	3.82	4.13	1.33	6.99	6.07	3.74	5	7.38	7.15	5.64	4.56	4.88	7.45	5.31	8.16	4.01	10.24	10.66	4.98
6	4.45	3.71	3.11	2.68	2.10	2.15	5.55	4.22	2.03	2.40	4.32	5.55	6	8.55	8.81	5.48	4.01	4.24	5.11	8.39	4.27	4.48	5.75	8.22	8.98
7	3.25	4.18	2.19	2.57	2.80	2.83	2.64	3.35	2.67	6.08	5.21	4.99	7	5.42	7.74	3.42	3.96	3.35	3.10	4.25	4.55	4.12	8.07	7.86	12.59
8	3.32	4.07	1.63	2.53	2.60	1.29	3.49	2.82	2.34	3.70	5.37	6.24	8	8.45	7.16	2.51	5.23	2.96	3.05	5.51	6.22	3.77	6.34	7.11	10.79
9	5.41	3.77	1.72	2.56	2.22	1.54	2.19	3.00	3.00	2.88	5.76	3.18	9	8.56	8.20	3.49	3.23	2.79	3.97	5.10	3.51	3.51	5.47	8.70	6.39
10	5.61	3.71	2.71	4.19	2.97	1.20	1.80	2.14	2.29	4.25	3.02	6.41	10	13.09	5.59	5.89	3.74	5.51	3.12	3.70	4.97	3.02	6.85	4.84	15.82
11	4.46	3.82	2.36	2.79	2.25	2.41	2.34	4.90	2.18	4.19	6.19	4.11	11	8.58	3.44	3.61	3.69	4.20	4.65	3.85	4.84	2.98	6.90	11.53	5.50
12	5.06	2.78	2.32	1.05	3.39	2.65	4.04	2.55	3.75	2.65	3.37	1.39	12	13.57	6.46	4.91	2.26	5.98	2.40	3.63	6.25	8.21	4.91	6.79	3.19
13	3.62	2.11	3.24	3.32	1.22	1.43	3.47	2.43	3.77	4.28	4.06	5.00	13	6.56	2.85	4.38	8.29	3.16	2.06	5.27	3.89	7.48	7.28	9.26	10.29
14	4.33	2.10	2.94	3.71	2.16	1.84	4.87	2.09	5.02	2.97	4.83	4.21	14	10.12	4.27	3.97	6.22	4.04	3.28	5.83	4.22	8.33	5.42	9.76	9.12
15	6.00	1.95	1.44	3.97	1.29	2.79	4.70	1.55	2.92	2.70	3.96	5.06	15	8.86	5.13	4.17	4.75	2.86	4.14	6.97	3.71	3.60	6.87	7.97	9.47
16	4.03	3.80	3.09	2.21	1.50	1.38	4.12	3.31	3.03	3.83	6.07	4.04	16	6.88	6.97	8.54	2.73	3.86	4.75	3.94	3.98	5.63	5.09	9.00	7.17
17	5.24	3.53	2.33	2.05	4.52	1.93	5.11	3.14	4.25	3.90	5.46	2.14	17	8.51	4.92	3.93	3.15	6.07	2.97	6.97	4.65	8.00	5.70	10.06	4.44
18	4.66	2.29	3.12	2.79	3.05	2.68	2.58	3.60	4.84	4.68	5.66	2.78	18	8.25	3.80	5.56	4.42	4.37	4.24	5.00	5.73	8.07	7.08	10.11	7.91
19	4.34	2.30	2.46	2.04	2.21	2.62	3.01	2.50	5.44	4.10	5.62	3.81	19	6.95	4.19	5.19	3.83	4.33	3.89	6.46	4.85	9.02	8.28	11.36	6.45
20	3.34	2.87	2.56	1.96	2.16	1.59	2.58	4.16	3.63	4.22	4.69	2.89	20	7.15	4.42	4.27	3.73	3.10	2.77	5.70	9.88	7.84	12.18	8.53	6.68
21	3.88	3.07	1.92	3.04	1.51	1.74	1.72	3.89	2.97	3.81	4.09	3.41	21	6.23	5.30	4.19	2.56	1.78	3.38	4.89	5.52	6.27	6.17	7.41	7.51
22	4.45	2.94	2.21	1.57	1.96	1.57	2.50	5.31	3.70	6.49	3.86	5.32	22	9.62	5.01	4.86	2.49	4.26	2.39	6.28	8.40	6.44	9.68	8.23	8.18
23	2.65	3.27	2.94	2.77	4.47	2.46	2.07	3.00	2.34	5.96	4.84	3.70	23	5.74	5.28	3.82	4.56	6.81	2.85	3.26	5.39	4.13	11.68	12.35	6.33
24	4.02	2.91	2.79	2.11	2.15	2.05	2.36	2.49	1.98	5.97	3.76	4.06	24	7.59	5.09	4.88	6.27	3.12	2.79	4.98	5.41	6.00	8.80	6.81	6.03
25	6.74	5.16	3.17	2.67	3.57	2.40	2.54	2.39	2.58	6.64	4.37	4.49	25	7.38	8.35	4.40	4.23	5.29	4.61	5.84	4.33	5.08	10.09	6.12	6.54
26	5.67	4.64	1.48	2.57	3.65	1.18	4.80	2.07	2.75	4.82	4.48	4.21	26	7.05	9.83	3.36	2.81	5.51	2.09	5.61	3.80	4.36	7.63	5.52	9.42
27	3.91	2.91	2.86	3.11	3.97	2.61	3.67	4.27	3.12	5.35	3.92	7.01	27	6.84	4.18	3.61	3.61	4.84	4.62	4.60	7.40	4.07	7.23	12.14	8.23
28	7.17	3.43	3.02	2.62	2.34	3.43	3.04	3.75	2.81	1.90	5.64	4.84	28	11.01	4.60	5.75	2.96	2.01	3.69	8.50	5.06	4.04	4.22	6.36	10.26
29	5.09	1.29	2.91	2.45	1.84	1.40	0.82	5.32	4.57	4.62	3.87	5.27	29	8.75	1.30	5.76	2.92	4.57	3.17	2.32	5.75	6.17	9.08	7.06	10.45
30	4.14	—	1.98	1.43	2.64	1.98	2.36	3.32	3.69	3.69	4.66	5.31	30	7.61	—	3.53	2.82	3.54	7.72	5.52	5.38	6.29	7.60	9.35	10.94
31	7.24	—	5.63	—	2.33	—	2.16	2.07	—	5.49	—	5.38	31	9.47	—	8.28	—	3.64	—	2.97	3.74	—	10.74	—	7.94

TABLE IVa 35-year totals of daily rainfall (*in inches*) 1916-50 (continued)

CHALLACOMBE

Day	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec
1	13.36	8.57	3.92	5.73	2.84	5.64	5.94	10.13	9.82	6.75	10.07	10.75
2	8.86	7.65	3.94	5.27	3.38	3.22	3.04	5.40	8.70	5.40	10.57	10.49
3	6.03	9.01	5.61	5.31	3.63	2.01	4.72	6.58	9.49	8.33	9.06	7.66
4	6.45	5.64	4.48	5.22	5.21	7.13	6.46	6.23	6.10	6.56	8.18	11.10
5	10.54	8.10	5.24	7.52	4.96	5.77	4.72	6.80	4.98	10.30	9.79	7.92
6	9.89	7.39	4.47	5.50	4.04	4.27	7.41	4.59	3.95	6.87	8.54	10.78
7	7.22	7.38	3.71	3.17	4.40	2.55	4.37	4.94	6.71	9.69	7.76	10.03
8	5.96	9.54	3.52	4.85	2.69	3.39	5.38	8.22	4.30	7.12	10.45	8.57
9	9.40	8.29	3.13	4.20	3.00	4.22	4.21	6.90	4.14	9.81	7.84	7.13
10	11.16	6.04	3.67	4.58	5.08	1.99	5.53	7.43	4.88	9.24	5.57	10.89
11	9.87	5.41	2.90	4.57	3.07	2.53	5.01	3.13	4.93	6.68	10.97	5.02
12	11.93	6.39	3.40	2.27	5.25	4.17	6.45	6.35	9.00	8.68	8.59	3.37
13	6.11	2.97	4.38	6.22	1.71	2.64	6.77	5.79	8.96	6.06	6.17	7.47
14	9.00	5.07	5.61	5.87	2.87	4.62	6.70	4.21	9.51	5.56	7.42	8.24
15	7.21	6.01	2.07	5.04	4.03	3.61	7.84	5.19	5.55	4.72	7.48	8.94
16	6.52	5.00	5.53	6.00	3.48	4.00	4.01	5.63	5.46	6.70	10.79	6.97
17	9.08	5.12	4.47	2.71	4.78	3.47	7.54	3.95	6.64	9.46	8.01	4.67
18	10.92	4.52	5.58	4.21	3.12	5.37	4.58	7.35	8.74	7.03	9.72	6.96
19	6.23	4.55	4.90	5.53	2.88	3.80	5.57	6.34	12.61	8.64	10.89	5.85
20	6.38	3.85	3.17	3.26	3.26	2.97	4.61	8.72	7.10	8.58	8.52	4.52
21	6.22	5.51	4.64	3.50	2.68	3.03	4.68	6.92	5.63	9.14	8.79	6.70
22	9.51	5.36	3.05	2.54	3.30	2.31	5.03	9.72	9.78	12.65	10.60	8.18
23	6.37	4.95	4.64	4.69	5.08	3.01	4.41	6.90	5.47	9.34	9.66	7.55
24	7.05	4.63	4.20	4.30	3.01	3.19	5.32	5.13	7.22	11.22	6.74	7.89
25	6.13	7.23	4.51	5.73	4.93	4.14	6.08	5.68	5.49	9.57	8.14	8.88
26	9.08	6.95	2.46	3.42	5.82	2.61	7.60	6.25	4.23	7.41	8.28	11.70
27	5.06	6.75	4.41	3.69	6.49	4.52	6.55	8.33	4.15	8.83	9.13	8.99
28	10.01	6.20	4.52	3.65	3.03	5.94	8.93	8.10	3.23	3.94	8.76	13.08
29	7.09	1.01	6.10	4.02	4.82	5.06	3.35	6.63	5.88	10.06	7.69	10.98
30	8.19	-	3.73	2.74	2.75	6.03	4.92	7.88	6.99	8.00	8.52	10.72
31	14.40	-	8.10	-	3.97	-	4.63	5.24	-	5.87	-	9.01

ST AUSTELL

Day	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec
1	7.87	6.17	3.19	4.77	2.00	4.72	3.81	4.07	5.14	3.07	7.69	9.90
2	4.93	6.45	3.05	4.15	1.63	2.02	2.04	1.59	5.53	3.27	5.86	5.76
3	5.73	7.34	5.84	4.08	3.01	3.56	4.96	4.95	4.53	4.48	5.68	4.86
4	4.20	5.85	5.34	3.73	4.83	3.31	5.45	4.85	3.69	5.33	6.67	7.48
5	5.32	5.90	5.53	3.58	4.94	3.33	4.60	6.86	2.85	5.86	7.39	4.89
6	7.24	8.15	3.67	4.78	3.11	3.01	6.05	1.45	3.28	3.64	7.36	6.58
7	5.36	4.63	2.25	3.16	3.63	1.64	2.72	5.06	3.41	9.38	6.87	8.09
8	5.36	5.81	2.20	3.65	3.51	2.70	3.53	4.24	3.58	6.01	6.87	9.04
9	5.76	4.47	3.26	2.48	2.69	2.41	3.38	2.72	3.30	2.85	5.93	5.66
10	8.81	6.64	4.33	3.37	3.68	2.02	2.39	3.28	1.85	5.04	4.48	10.15
11	6.63	4.63	3.45	3.49	4.35	2.55	3.65	3.78	2.68	5.28	7.31	4.07
12	6.74	4.86	3.55	2.08	5.34	2.69	2.78	4.30	6.00	3.04	5.79	3.11
13	4.48	2.85	4.10	5.82	2.12	2.76	3.90	2.66	5.04	6.27	7.32	7.09
14	6.86	3.33	4.42	4.84	2.40	2.24	4.35	1.78	4.69	3.78	5.74	7.07
15	7.12	3.66	3.64	3.60	2.05	2.82	8.43	2.04	2.89	4.09	8.76	7.60
16	5.05	5.27	5.60	2.69	2.90	2.66	3.04	3.80	3.54	4.28	10.95	5.42
17	6.26	4.32	3.21	2.25	5.15	2.14	5.51	3.77	5.59	4.52	7.39	3.34
18	6.17	3.32	4.11	3.50	2.82	3.65	2.31	3.92	6.08	4.92	6.85	5.05
19	7.45	3.15	3.85	3.60	3.42	2.84	4.06	2.61	6.58	6.35	8.50	5.86
20	6.75	4.31	3.47	2.58	2.70	3.24	4.02	7.78	5.44	7.94	5.81	5.63
21	5.49	5.91	3.17	2.71	3.04	2.39	3.08	2.86	3.39	5.10	5.26	6.23
22	6.90	3.10	4.08	2.91	4.42	1.66	2.93	7.40	5.92	8.18	5.65	6.48
23	3.82	5.53	2.51	3.22	4.47	1.70	1.53	6.40	3.29	7.33	7.07	4.79
24	6.32	4.32	3.32	3.43	2.90	1.33	3.95	4.57	3.73	6.75	5.73	5.94
25	7.36	6.26	4.35	2.82	5.04	2.62	3.82	3.61	4.37	8.61	5.29	4.40
26	6.38	5.39	3.14	2.98	4.41	1.87	4.52	3.42	2.41	4.51	5.73	5.83
27	4.98	4.12	4.31	4.11	3.98	2.99	4.28	6.87	2.85	8.36	9.49	7.15
28	10.17	4.26	6.34	3.98	2.12	1.86	5.88	4.64	3.06	4.25	4.01	7.00
29	6.68	1.49	3.18	2.50	3.11	2.87	0.97	3.40	4.84	7.88	4.39	7.76
30	5.89	-	3.11	1.89	3.05	5.64	4.34	4.36	5.79	6.75	5.26	7.83
31	8.86	-	6.92	-	4.32	-	2.26	2.72	-	8.47	-	7.05

TABLE IVa 35-year totals of daily rainfall *(in inches)* 1916-50 (continued)

	TRURO												TRESCO ABBEY											
Day	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec
1	7.19	6.10	3.22	4.59	2.01	3.77	2.92	4.39	3.97	2.63	6.44	8.05	1	5.73	5.55	3.23	2.81	2.30	4.45	2.34	3.00	3.08	4.95	4.92	6.80
2	4.68	5.86	3.17	4.01	1.37	1.86	1.68	1.78	4.46	3.05	5.14	5.17	2	3.83	4.77	2.68	3.42	3.53	1.99	1.79	2.90	4.72	1.90	4.56	4.00
3	4.60	6.22	4.76	3.88	2.54	2.82	3.45	3.28	3.23	4.38	6.22	4.39	3	4.21	3.85	2.93	3.67	1.89	2.92	2.94	2.49	3.59	5.03	4.86	3.91
4	3.92	5.77	5.85	3.42	4.60	2.27	5.60	3.85	3.75	4.33	5.45	6.66	4	2.47	4.24	4.98	2.30	4.26	2.12	2.47	3.22	2.04	3.69	4.58	4.41
5	6.76	5.29	4.59	3.66	4.39	4.07	3.21	4.19	1.70	5.15	7.45	4.22	5	3.06	3.44	3.05	2.13	4.07	1.82	4.13	2.84	1.39	3.39	4.43	4.26
6	5.85	7.35	3.42	4.13	2.21	2.96	4.81	1.93	2.23	3.49	6.33	5.48	6	4.86	4.97	3.01	4.00	1.43	1.93	5.01	2.46	1.88	3.81	4.99	4.04
7	4.63	4.11	2.52	2.45	3.01	1.54	1.62	4.45	4.02	8.62	5.79	7.03	7	2.82	3.38	2.74	1.54	1.56	1.41	2.31	2.30	1.48	7.06	5.11	5.41
8	5.70	5.00	2.83	3.37	2.20	2.85	3.06	3.35	2.59	4.61	6.14	8.56	8	3.95	4.27	2.08	3.93	1.42	1.78	3.56	3.21	2.57	3.18	4.26	5.95
9	5.39	3.66	3.21	1.99	2.15	2.20	3.30	2.23	3.08	3.05	5.41	5.08	9	3.80	2.76	2.42	2.41	2.21	1.45	3.58	2.52	1.43	2.40	4.35	3.86
10	8.46	5.16	4.45	3.08	3.16	2.06	1.79	3.07	1.72	5.15	3.91	9.97	10	6.83	7.28	4.76	1.64	2.42	1.49	1.38	2.25	1.41	3.32	3.18	6.74
11	6.28	5.49	2.94	3.71	3.37	2.30	3.14	2.66	3.06	5.22	7.00	3.77	11	4.72	3.15	3.68	2.56	2.69	2.22	2.00	2.34	1.57	4.40	4.62	2.14
12	6.89	4.45	3.14	2.03	4.14	2.14	1.57	2.73	4.17	2.45	6.98	2.71	12	5.13	3.16	2.83	1.51	2.58	2.58	1.50	2.19	3.45	1.68	4.33	2.64
13	3.73	2.25	3.81	4.84	1.88	2.90	3.42	3.75	5.37	4.61	7.51	6.96	13	2.76	2.02	3.45	4.32	1.53	3.15	2.08	3.57	4.95	4.17	5.87	5.38
14	6.24	2.91	4.55	4.48	2.04	2.67	2.88	1.25	4.03	3.76	5.49	5.73	14	5.55	1.74	2.55	4.86	2.99	1.55	3.15	1.78	2.95	2.97	3.84	4.37
15	7.03	2.64	3.34	3.36	1.76	1.97	6.88	1.41	2.20	3.74	7.73	6.69	15	4.02	2.15	2.53	2.39	0.98	1.43	4.18	1.41	2.35	4.06	6.91	4.38
16	5.12	5.14	4.67	2.03	2.54	2.75	3.04	2.26	3.01	3.21	9.48	4.92	16	3.66	3.99	3.72	1.39	2.56	1.97	1.80	1.83	2.28	1.85	6.87	2.98
17	5.06	4.33	2.83	2.02	4.34	1.41	4.00	3.20	4.30	3.74	7.07	3.12	17	3.17	3.95	2.05	1.52	3.01	1.91	3.25	1.75	3.82	3.34	3.91	2.00
18	5.56	2.76	3.35	3.28	3.35	4.40	2.24	3.14	5.92	4.02	6.88	4.05	18	4.31	2.20	2.74	3.41	2.93	2.55	2.60	3.15	7.27	3.02	4.95	3.27
19	6.26	2.71	3.78	3.06	3.73	2.01	3.13	3.14	5.83	7.13	7.31	4.08	19	5.41	1.92	2.09	3.11	2.05	2.54	3.59	2.48	5.99	4.98	4.39	3.10
20	5.57	3.02	3.11	2.02	2.55	2.23	3.07	5.94	3.13	6.36	6.24	5.28	20	4.26	3.49	1.75	2.39	2.99	1.54	2.94	3.83	3.28	5.28	3.83	3.27
21	4.68	4.92	2.99	2.09	2.03	1.69	3.83	3.48	3.34	4.13	5.33	5.83	21	4.15	3.01	2.15	1.86	1.54	1.31	2.81	4.76	3.44	4.24	3.12	5.21
22	6.30	3.15	3.14	2.18	3.54	2.52	2.15	7.60	3.56	8.71	4.55	6.33	22	4.92	2.59	1.87	2.19	3.32	2.26	2.09	5.00	2.25	6.85	3.87	5.68
23	3.11	4.39	2.89	2.57	3.63	1.63	1.52	6.41	2.96	5.78	7.75	4.12	23	3.21	2.91	2.45	2.14	3.60	2.43	1.53	3.79	2.57	5.39	6.18	3.08
24	6.06	3.70	2.90	2.73	3.35	0.97	3.49	3.02	3.46	5.38	4.95	4.88	24	4.16	2.92	2.22	1.17	1.99	0.56	2.66	1.80	2.90	6.57	2.07	3.89
25	5.99	6.16	4.11	2.46	4.62	1.97	3.22	3.19	3.30	7.90	4.20	4.04	25	4.44	3.94	3.49	2.89	4.39	1.52	2.76	2.59	2.38	5.59	3.62	2.96
26	6.62	5.07	2.57	2.18	4.44	0.99	4.53	2.36	2.64	4.47	4.95	5.11	26	4.55	4.90	2.51	1.52	2.51	0.79	2.27	1.42	2.44	3.82	4.55	3.54
27	3.87	3.47	3.77	3.36	3.21	2.46	3.80	4.78	2.41	6.62	7.47	7.18	27	3.37	3.75	3.20	1.83	3.24	3.30	2.71	3.23	1.90	3.29	5.45	4.95
28	8.73	4.04	5.77	2.94	2.02	1.36	4.96	3.60	2.68	4.53	3.66	5.47	28	5.37	3.88	3.60	2.86	2.42	1.89	2.83	4.18	3.06	3.51	2.75	4.61
29	6.55	1.38	3.29	2.26	2.99	3.02	0.67	2.91	4.92	8.14	3.05	7.68	29	5.24	0.85	2.73	1.18	2.97	1.43	0.65	2.99	3.61	5.29	2.44	4.90
30	5.62	-	3.09	2.05	2.47	4.06	2.86	3.14	4.75	4.80	5.22	6.49	30	3.88	-	2.60	1.45	2.52	2.31	2.65	3.51	3.64	4.11	4.32	5.16
31	8.39	-	6.65	-	3.83	-	1.93	2.36	-	7.88	-	7.21	31	5.14	-	5.05	-	2.41	-	1.21	1.78	-	5.49	-	5.12

TABLE IVb 35-year totals with equivalent yearly means in steps of 0.01 inch from trace to 0.70 inch for use with Table IVa

Totals	means	Totals	means
0.00 – 0.17	'trace'		
0.18 – 0.52	0.01	12.43 – 12.77	0.36
0.53 – 0.87	0.02	12.78 – 13.12	0.37
0.88 – 1.22	0.03	13.13 – 13.47	0.38
1.23 – 1.57	0.04	13.48 – 13.82	0.39
1.58 – 1.92	0.05	13.83 – 14.17	0.40
1.93 – 2.27	0.06	14.18 – 14.52	0.41
2.28 – 2.62	0.07	14.53 – 14.87	0.42
2.63 – 2.97	0.08	14.88 – 15.22	0.43
2.98 – 3.32	0.09	15.23 – 15.57	0.44
3.33 – 3.67	0.10	15.58 – 15.92	0.45
3.68 – 4.02	0.11	15.93 – 16.27	0.46
4.03 – 4.37	0.12	16.28 – 16.62	0.47
4.38 – 4.72	0.13	16.63 – 16.97	0.48
4.73 – 5.07	0.14	16.98 – 17.32	0.49
5.08 – 5.42	0.15	17.33 – 17.67	0.50
5.43 – 5.77	0.16	17.68 – 18.02	0.51
5.78 – 6.12	0.17	18.03 – 18.37	0.52
6.13 – 6.47	0.18	18.38 – 18.72	0.53
6.48 – 6.82	0.19	18.73 – 19.07	0.54
6.83 – 7.17	0.20	19.08 – 19.42	0.55
7.18 – 7.52	0.21	19.43 – 19.77	0.56
7.53 – 7.87	0.22	19.78 – 20.12	0.57
7.88 – 8.22	0.23	20.13 – 20.47	0.58
8.23 – 8.57	0.24	20.48 – 20.82	0.59
8.58 – 8.92	0.25	20.83 – 21.17	0.60
8.93 – 9.27	0.26	21.18 – 21.52	0.61
9.28 – 9.62	0.27	21.53 – 21.87	0.62
9.63 – 9.97	0.28	21.88 – 22.22	0.63
9.98 – 10.32	0.29	22.23 – 22.57	0.64
10.33 – 10.67	0.30	22.58 – 22.92	0.65
10.68 – 11.02	0.31	22.93 – 23.27	0.66
11.03 – 11.37	0.32	23.28 – 23.62	0.67
11.38 – 11.72	0.33	23.63 – 23.97	0.68
11.73 – 12.07	0.34	23.98 – 24.32	0.69
12.08 – 12.42	0.35	24.33 – 24.67	0.70

TABLE V Accumulated frequencies of daily rainfall *(in inches)*, 1916-50

COPLESTONE

Daily totals *inches*	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	All months
	number of days												
2.50													
2.40													
2.30						1				1			2
2.20						1				1			2
2.10						1				1			2
2.00						1				1			2
1.90						1	1			1			3
1.80						1	1			1			3
1.70	1					1	1	1		2	1	1	8
1.60	1					1	1	1		2	1	1	8
1.50	2					1	1	1		2	2	1	10
1.40	2		1			2	2	1	1	2	3	2	16
1.30	2		1	1		3	2	2	1	3	3	2	20
1.20	4		1	1	2	3	2	2	2	6	6	3	32
1.10	5		1	3	2	3	4	5	3	7	11	4	48
1.00	8	2	4	4	2	4	7	14	5	11	19	7	87
0.90	14	6	4	4	3	5	9	16	7	16	21	8	113
0.80	18	12	7	6	7	7	13	17	10	21	26	14	158
0.70	30	22	11	9	10	9	18	27	16	30	40	23	245
0.60	45	34	20	13	15	12	27	35	31	41	55	39	367
0.50	67	48	28	29	31	17	50	52	53	62	74	69	580
0.40	101	74	52	48	48	30	78	73	78	97	110	105	894
0.30	157	111	82	71	80	57	105	104	109	146	164	168	1356
0.20	266	169	143	141	141	102	149	169	165	226	263	252	2156
0.10	405	301	262	278	255	196	249	281	275	364	380	408	2186
0.005	752	571	534	557	518	456	579	584	555	659	692	742	7199
*0.004	333	418	551	493	567	594	506	501	495	426	358	343	5585
Total	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including rainless days.

CHALLACOMBE

Daily totals *inches*	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	All months
	number of days												
3.00									1		1		2
2.90									1	1	1		3
2.80								1	1	1	1		4
2.70	1							1	1	1	1		5
2.60	1							1	2	1	1		6
2.50	1						1	1	2	1	2		8
2.40	1					1	1	1	2	3	4	1	14
2.30	1					1	1	1	3	4	5	1	17
2.20	1					1	1	1	3	5	5	1	18
2.10	2					1	1	1	3	5	6	1	20
2.00	4					1	1	1	3	5	8	2	25
1.90	7					1	1	1	4	8	9	4	35
1.80	8	1	1			1	1	5	4	8	10	6	45
1.70	11	1	1			1	1	5	4	9	13	7	53
1.60	12	2	1	2		2	2	6	5	13	18	8	71
1.50	16	2	2	2		2	4	9	9	14	23	8	89
1.40	19	6	2	3	2	4	8	14	15	21	24	11	129
1.30	22	10	2	4	5	5	9	17	20	23	30	16	163
1.20	31	13	2	5	7	8	12	20	25	30	36	24	213
1.10	39	18	2	7	11	10	17	24	28	38	44	35	273
1.00	45	22	11	10	17	12	26	33	33	48	54	54	365
0.90	62	36	16	16	19	17	32	41	45	62	72	69	487
0.80	81	46	29	23	24	21	44	60	58	78	90	94	648
0.70	106	73	40	36	35	32	63	81	72	104	113	115	870
0.60	134	101	67	59	52	43	89	113	100	140	142	144	1184
0.50	181	126	84	82	72	55	120	140	132	173	175	185	1525
0.40	232	164	113	130	99	94	154	185	182	219	231	264	2067
0.30	325	212	161	170	135	150	205	239	243	292	313	331	2776
0.20	409	283	235	242	199	208	271	308	311	379	396	413	3614
0.10	549	400	347	328	301	299	400	425	433	502	512	523	5019
0.005	748	558	541	551	527	500	647	651	630	697	694	735	7479
*0.004	337	431	544	499	558	550	438	434	420	388	356	350	5305
Total	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including rainless days

TABLE V Accumulated frequencies of daily rainfall (*in inches*), 1916-50 (continued)

TRURO

Daily totals	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	All months
inches	*number of days*												
3.20										1			1
2.70										2			2
2.50										2			2
2.40										2			2
2.30										2			2
2.20							1			2	2		5
2.10		1					1	1		2	3		8
2.00		1					1	1		2	3		8
1.90		1					1	1	1	2	3		9
1.80		1					1	2	1	2	4		11
1.70	1	2	1			1	1	2	1	3	4	1	17
1.60	1	3	1			1	1	2	1	3	5	1	19
1.50	2	4	2			1	1	2	1	5	7	1	26
1.40	4	5	3			1	3	2	1	6	9	1	35
1.30	6	6	3	1		1	4	3	1	8	12	4	49
1.20	9	7	4	1	1	2	6	5	3	12	13	6	69
1.10	14	9	7	2	1	3	7	8	6	14	19	9	106
1.00	19	13	10	3	2	3	8	13	7	18	24	16	136
0.90	24	24	14	4	3	6	12	16	8	27	34	25	197
0.80	33	28	21	6	10	9	17	25	14	35	46	40	284
0.70	52	38	28	12	16	14	26	32	25	44	59	55	401
0.60	83	49	40	19	34	22	38	47	39	60	82	81	594
0.50	108	66	58	36	39	28	49	60	54	90	110	107	805
0.40	148	98	89	61	65	52	74	78	77	126	145	145	1158
0.30	201	138	131	97	109	76	107	107	122	174	214	204	1680
0.20	304	209	205	153	175	125	156	165	183	264	295	301	2535
0.10	482	330	307	295	282	207	254	264	303	394	444	465	4027
0.005	799	582	563	533	509	428	538	540	553	648	695	762	7150
*0.004	286	407	522	517	576	622	547	545	497	437	355	323	5634
Total	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

TRESCO ABBEY

Daily totals	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	All months
	number of days												
2.70		1											1
2.50		1											1
2.40		1											1
2.30		1											1
2.20		1								1			2
2.10		1								2			3
2.00		1				1				2			4
1.90		1				1				2			4
1.80		1		1		1				2			5
1.70		1		2		1			1	2	1		8
1.60		1		2		1		1	1	2	1		9
1.50		1	1	2		1		1	1	3	2		12
1.40		1	1	2	1	2		1	3	6	3	1	21
1.30		1	2	2	2	2		1	3	8	4	1	26
1.20	1	2	2	2	2	3	1	1	6	8	4	2	34
1.10	2	2	2	2	3	4	2	4	6	10	5	2	44
1.00	2	5	4	3	4	5	7	6	7	11	8	3	65
0.90	6	6	6	3	6	5	10	7	9	12	11	8	89
0.80	12	14	7	3	10	6	13	9	13	24	17	13	141
0.70	18	22	13	7	16	9	17	19	18	34	24	20	217
0.60	34	32	18	15	25	15	25	26	24	46	36	28	324
0.50	52	42	28	20	35	27	34	37	38	63	63	51	490
0.40	80	84	48	36	49	37	42	64	60	93	97	99	789
0.30	151	125	98	66	80	53	76	93	96	139	152	143	1272
0.20	228	194	167	128	135	88	136	139	142	224	241	240	2062
0.10	411	323	278	245	245	172	225	240	254	343	377	395	3513
0.005	840	839	609	532	499	440	595	575	580	648	734	772	7463
0.004	245	350	476	518	586	610	490	510	470	437	316	313	5321
Total	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including rainless days

TABLE V Accumulated frequencies of daily rainfall *(in inches)*, 1916-50 (continued)

SHEEPSTOR, REDSTONE

Daily totals	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	All months
inches	*number of days*												
3.90								1					1
3.80								1		1			2
3.40						1		1		1			3
3.30						1		1		1	1		4
2.80						1		1		2	1		5
2.70						1		1		2	2		6
2.50						2		1		2	3		8
2.40						2		2	1	2	6	1	14
2.30				1		2		3	1	2	6	3	18
2.20	1			1		2		4	1	2	8	4	23
2.10	2	1		1		2		4	1	2	10	4	27
2.00	3	1		1		3		4	2	4	11	5	34
1.90	6	2		1		3		4	2	5	14	7	44
1.80	7	4		1		3	3	6	2	7	19	9	61
1.70	8	5		1		5	5	7	3	9	21	10	74
1.60	13	6		1		6	5	8	3	10	21	10	83
1.50	17	10	4	1	2	7	9	12	5	14	27	13	121
1.40	22	13	5	1	3	9	11	15	8	17	33	25	162
1.30	25	14	6	2	6	9	14	17	12	20	38	28	191
1.20	36	20	8	6	9	10	20	19	17	27	46	39	257
1.10	43	24	10	11	12	11	25	22	19	33	51	44	305
1.00	54	31	19	14	18	17	28	25	30	38	65	56	395
0.90	68	36	28	19	22	20	37	34	40	48	78	73	503
0.80	81	56	36	31	36	25	45	45	60	71	92	94	672
0.70	104	75	45	42	47	33	56	63	73	96	109	115	858
0.60	143	87	73	52	63	46	79	77	83	128	139	143	1113
0.50	187	114	101	75	80	63	100	105	115	167	168	182	1457
0.40	240	153	138	108	110	83	135	139	152	207	219	233	1917
0.30	299	204	178	142	141	122	177	184	199	269	269	297	2481
0.20	376	272	235	204	194	173	251	255	272	348	360	381	3321
0.10	520	374	348	322	298	275	374	371	382	463	483	514	4724
0.005	786	584	590	554	560	516	646	641	610	686	695	767	7635
*0.004	299	405	495	496	525	534	439	444	440	399	355	318	5149
Total	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including rainless days

ST AUSTELL

Daily totals	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	All months
inches	*number of days*												
3.40										1			1
2.90										2			2
2.50								1		2			3
2.40								2		2			4
2.30								2		3			5
2.20								2		3			5
2.10								2		3		1	6
2.00								2		4		1	7
1.90		1					2	3		4	1	1	12
1.80		1					4	3		4	2	1	15
1.70		2	2			1	4	3		4	4	1	21
1.60		2	2			1	4	6	1	4	7	3	30
1.50		2	3			1	4	7	2	4	8	4	35
1.40	3	4	3			1	4	7	3	4	11	5	45
1.30	7	8	4		2	1	8	9	4	8	14	6	71
1.20	9	12	5		4	1	10	11	6	9	20	9	96
1.10	13	13	6	3	4	2	13	16	8	15	26	11	130
1.00	16	20	13	3	5	4	15	19	13	21	32	15	176
0.90	24	25	19	6	6	6	16	24	18	29	43	29	245
0.80	41	34	24	8	14	13	25	29	24	39	51	44	346
0.70	58	44	31	14	25	17	35	36	31	54	68	64	477
0.60	83	62	46	26	33	27	49	50	55	76	92	81	680
0.50	116	81	60	45	48	41	65	66	70	106	123	120	941
0.40	170	109	95	77	71	63	83	95	94	144	170	170	1341
0.30	238	155	136	117	133	86	117	126	148	209	232	236	1933
0.20	346	229	210	188	196	138	178	200	210	292	325	349	2861
0.10	505	352	332	317	307	231	309	308	334	428	461	491	4375
0.005	804	599	577	537	519	433	597	572	559	655	686	760	7298
*0.004	281	390	508	513	566	617	488	513	491	430	364	325	5486
Total	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including rainless days

TABLE VI Monthly and yearly extremes of rainfall *(in inches)* for the periods 1916-50 and 1911-60

			Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec	Year
COPLESTONE	1916-50	max	1939 7.12	1923 7.52	1947 6.04	1935 4.72	1946 5.08	1917 4.80	1936 6.05	1917 8.58	1918 6.89	1932 8.22	1929 8.40	1929 8.38	1950 43.89
		min	*1950 1.09*	*1932 0.20*	*1938 0.02*	*1938 0.37*	*1939 0.45*	*1930 0.40*	*1935 0.64*	*1936 0.21*	*1929 0.45*	*1931 0.89*	*1945 0.73*	*1926 0.72*	*1921 18.66*
	1911-60	max			1914 6.31			1958 5.16		1912 6.68	1956 7.53			1911 8.88	
		min	*1953 0.74*			*1912 0.22*			*1911 0.39*						
CHALLACOMBE	1916-50	max	1948 14.86	1923 12.77	1947 8.53	1935 7.92	1942 7.22	1946 7.29	1936 10.01	1917 12.56	1950 13.70	1932 15.87	1929 15.19	1934 16.80	1946 76.96
		min	*1917 2.01*	*1932 0.00*	*1944 0.56*	*1938 0.56*	*1919 0.86*	*1925 0.02*	*1934 1.62*	*1947 0.63*	*1941 0.80*	*1922 2.13*	*1945 1.10*	*1926 0.79*	*1933 45.23*
	1911-60	max			1914 12.25	1913 8.91	1958 8.04	1912 10.03		1912 16.50					1912 86.70
		min							*1911 0.52*						
SHEEPSTOR REDSTONE	1916-50	max	1948 13.47	1937 10.27	1947 11.11	1935 6.87	1942 8.44	1945 7.22	1939 11.38	1950 9.46	1918 10.32	1949 11.96	1929 20.55	1934 20.77	1948 81.65
		min	*1950 2.57*	*1932 0.06*	*1944 0.25*	*1938 0.15*	*1936 0.67*	*1925 0.03*	*1935 1.20*	*1940 0.30*	*1939 0.53*	*1931 1.57*	*1942 1.38*	*1926 1.10*	*1921 38.57*
	1911-60	max		1915 14.43	1914 12.10	1913 8.18		1912 8.94		1912 15.59					1912 86.65
		min	*1953 1.90*						*1913 0.57*		*1959 0.29*				
ST AUSTELL	1916-50	max	1948 9.54	1923 9.35	1947 11.65	1935 6.39	1942 8.34	1947 5.13	1936 8.22	1950 7.26	1918 7.95	1924 10.44	1929 13.09	1934 13.03	1924 59.21
		min	*1916 1.70*	*1932 0.09*	*1929 0.45* *1944 0.45*	*1938 0.10*	*1944 0.74*	*1925 0.03*	*1935 0.59*	*1940 0.25*	*1929 0.50*	*1931 1.15*	*1942 1.13*	*1926 1.09*	*1921 27.87*
	1911-60	max						1912 6.48		1912 11.32					1959 61.82
		min	*1953 1.43*						*1955 0.18*	*1955 0.22*	*1959 0.14*				
TRURO	1916-50	max	1948 9.03	1923 8.98	1947 11.21	1935 4.81	1942 6.83	1945 3.79	1936 8.01	1950 6.83	1927 7.16	1924 9.30	1929 13.75	1934 11.19	1950 52.13
		min	*1948 1.35*	*1932 0.04*	*1938 0.29*	*1938 0.01*	*1944 0.58*	*1925 0.03*	*1919 0.67*	*1940 0.18*	*1929 0.58*	*1931 0.98*	*1942 0.97*	*1926 0.95*	*1921 27.54*
	1911-60	max						1912 4.52		1912 10.82					1960 56.02[1]
		min	*1953 1.09*						*1955 0.14*						
TRESCO	1916-50	max	1943 5.96 1948 5.96	1943 8.43	1947 7.71	1928 4.54	1929 5.28	1917 4.16	1936 6.90	1917 5.44	1918 5.81	1924 6.76	1929 7.35	1929 7.98	1947 41.45
		min	*1950 1.32*	*1942 0.35*	*1929 0.39*	*1938 0.07*	*1944 0.29*	*1925 0.00*	*1935 0.34*	*1940 0.21*	*1921 0.48*	*1931 0.88*	*1942 1.07*	*1926 0.71*	*1921 22.06*
	1911-60	max	1913 6.89							1912 9.45		1960 6.98			1960 43.41[2]
		min	*1914 1.24*	*1959 0.29*					*1955 0.09*		*1959 0.14*				

[1] Taken from Truro Waterworks

[2] Taken from Tresco Roweasfield

TABLE VII Maximum daily rainfall *(in inches)* for the periods 1916-50 and 1911-60

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
COPLESTONE	1916-50	MAX	1918 1.74	1950 1.07	1922 1.44	1940 1.39	1946 1.23	1917 2.38	1949 1.98	1916 1.78	1943 1.48	1929 2.31	1926 1.70	1928 1.75
	1911-60	MAX	1955 1.97						1955 2.53	1952 2.97				
CHALLACOMBE RESERVOIR	1916-50	MAX	1948 2.71	1918 1.88	1941 1.80	1949 1.69	1948 1.42	1917 2.47	1940 2.59	1929 2.88	1944 3.05	1929 2.93	1940 3.02	1922 2.40
	1911-60	MAX			1952 2.00	1913 2.18				1952 7.58				1960 3.26
REDSTONE RES.	1916-50	MAX	1932 2.26	1916 2.13	1947 1.54	1924 2.33	1929 1.55	1932 3.40	1939 1.87	1929 3.95	1946 2.40	1929 3.88	1946 3.36	1934 2.45
					1948 1.54		1932 1.55							
	1911-60	MAX	1960 2.35	1915 3.05	1952 2.06		1913 1.68		1954 2.36		1956 2.50			1915 2.85
ST AUSTELL	1916-50	MAX	1927 1.44	1916 1.98	1916 1.79	1935 1.18	1942 1.33	1932 1.77	1939 1.93	1930 2.58	1920 1.65	1924 3.45	1944 1.90	1933 2.19
									1945 1.93					
	1911-60	MAX	1959 1.65				1960 1.43	1957 2.81		1959 4.39				
TRURO	1916-50	MAX	1930 1.79	1936 2.17	1916 1.74	1931 1.32	1941 1.22	1932 1.72	1945 2.21	1930 2.17	1946 1.80	1924 3.26	1944 2.28	1928 1.72
	1911-60	MAX					1954 1.30	1957 1.98[1]		1959 3.10[1]				1956 3.11
TRESCO	1916-50	MAX	1940 1.27	1936 2.70	1916 1.52	1940 1.85	1928 1.45	1938 2.00	1936 1.20	1918 1.88	1916 1.79	1937 2.26	1939 1.74	1934 1.49
	1911-60	MAX							1954 1.35	1912 2.32				1957 1.54

[1] Taken from Truro Waterworks.

APPENDIX I

Intense falls of rain in 2 hours or less during the period 1865-1960 over the areas of the Devon and Cornwall River Boards arranged chronologically by county. ***(From British Rainfall)***

N = noteworthy* R = remarkable* VR = very rare*

Area Year	Classification	Station	Drainage area	Date	Amount *inches*	Duration *minutes*	Rate *inches/hour*
DEVON RIVER BOARD							
Dorset							
1924	N	Broadwindsor, Blackdown House	2	22 Jly	0.75	20	2.25
Somerset							
1890	N	Exford Rectory	5	25 May	0.70	22	1-91
1938	R	Winsford	5	1 Aug	1.43	43	2.00
1939	R	Brushford Nurseries	5	16 Jly	2.49	90	1.66
1941	R	Churchstanton	5	27 Sep	1.38	20	4.14
1952	N	Exford, Lower Thorne	5	15 Aug	0.77	20	2.31
1953	N	Exford, Lower Thorne	5	23 Aug	1.15	90	0.77
1960	N	Exford Rectory	5	6 Aug	1.53	90	1.02
1960	N	Exford, Lower Thorne	5	6 Aug	1.74	115	0.91
North Devon							
1870	N	South Molton	2	19 Oct	0.94	19	2.97
1871	N	Hatherleigh, Jacobstowe	3	16 Aug	1.26	60	1.26
1871	N	South Molton	2	16 Aug	1.41	65	1.30
1879	R	Barnstaple, Arlington Court	2	30 Jun	1.48	20	4.44
1880	N	Torrington, Langtree Wick	3	22 Jly	1.11	60	1.11
1905	N	Okehampton, Oaklands	3	15 Aug	1.72	120	0.86
1909	VR	Ilfracombe Reservoir	1	29 Sep	2.50	45	3.33
1910	N	Molland	2	8 Aug	1.07	60	1.07
1915	N	East Anstey, Rhyll Manor	2	4 Jly	0.78	30	1.56
1924	N	Bideford, Chudleigh House	3	21 Jly	0.97	30	1.94
1924	R	Filleagh, Castle Hill Gardens	2	19 May	1.48	60	1.48
1927	R	Parkham, Melbury Reservoir	3	7 Jly	1.12	15	4.48
1927	N	Hartland, Fosfelle	4	5 Aug	1.10	50	1.32
1927	N	Molland, Green Cottage	2	11 Jly	1.42	105	0.81
1928	N	Witheridge	2	27 Aug	1.06	60	1.06
1934	N	Parkham, Melbury Moor	3	1 Aug	1.28	120	0.64
1938	R	Northam, Chope Barton	3	9 Aug	1.82	45	2.43
1949	N	Okehampton, Uplands	3	25 Aug	1.01	60	1.01
1952	R	Okehampton, Uplands	3	6 Aug	1.42	40	2.13
1960	N	Chivenor Airfield	2	22 Aug	1.11	100	0.67
South Devon							
1867	N	Brixham, Lupton	4	3 Sep	1.25	60	1.25
1875	N	Teignmouth, Landscore	4	19 Oct	1.81	120	0.91
1883	N	Torquay, Babbacombe	5	30 Jly	1.03	26	2.38
1884	N	Ashburton, Druid House	4	26 Jan	1.19	120	0.59
1888	R	Torquay, Babbacombe	5	6 Jly	1.47	30	2.94
1889	N	Teignmouth, Marine Villa	5	13 Jly	1.20	120	0.60

* For definition see British Rainfall 1935

Area/Year	Classification	Station	Drainage area	Date	Amount *inches*	Duration *minutes*	Rate *inches/hour*
South Devon (contd)							
1890	R	Rousdon Observatory	7	25 May	1.56	60	1.56
1893	N	Ashburton, Druid House	4	15 May	0.90	35	1.54
1894	N	Axminster, Great Trill	7	14 Nov	0.76	20	2.28
1896	R	Bampton, Huntsham Court	6	1 Aug	1.82	60	1.82
1897	VR	Chudleigh, Torquay Waterworks	5	20 Jly	2.75	70	2.36
1898	N	Kingskerswell, South Hill	5	17 Oct	1.00	60	1.00
1899	R	Kingsteignton, Teignbridge House	5	22 Jly	1.30	40	1.95
1899	N	Kenton, Southtown House	6	22 Jly	1.20	45	1.60
1903	N	Honiton, Combe Raleigh	7	28 May	1.28	120	0.64
1906	N	Sidmouth	7	23 Jun	0.97	30	1.94
1909	N	Honiton, Combe Raleigh	7	6 Jun	1.24	60	1.24
1910	N	Seaton	7	22 May	1.07	45	1.43
1913	N	Crediton, Okefield	6	3 Oct	1.45	60	1.45
1915	R	East Budleigh, Bicton Common	7	13 Aug	2.00	120	1.00
1919	R	Moretonhampstead Rectory	5	28 Aug	1.50	60	1.50
1925	R	Ashburton, Orchard Mount	4	19 Aug	1.50	45	2.00
1927	R	Chagford, Dartmoor Sanatorium	5	23 Sep	1.30	10	7.80
1933	VR	Poltimore Rectory	6	22 Jun	2.25	45	3.00
1936	R	Exeter, Countess Wear	6	29 Jun	1.67	70	1.43
1937	N	Torquay, Abbey Park	5	19 Jun	0.66	12	3.30
1937	N	Newton Poppleford, Haymans	7	9 May	1.29	90	0.86
1938	R	Stoke Gabriel, Maisonette	4	4 Aug	1.41	20	4.23
1938	R	Holne, Church Park Cottage	4	4 Aug	1.10	20	3.30
1938	N	Crediton, Kinross	6	11 Aug	1.13	40	1.69
1938	N	South Brent, Brent Moor	3	4 Aug	1.00	45	1.33
1938	N	Axminster, Kilmington	7	25 Nov	1.35	60	1.35
1938	N	Culmstock, The Knap	6	4 Aug	1.00	60	1.00
1938	R	Honiton, Cotleigh House	7	4 Aug	1.91	90	1.27
1938	N	Budleigh Salterton	7	4 Aug	1.44	115	0.75
1938	N	Ashburton, Melrose	4	4 Aug	1.28	120	0.64
1938	N	Moretonhampstead	5	11 Aug	0.91	20	2.73
1938	VR	Paignton, Victoria Park	4	4 Aug	2.71	45	3.61
1938	VR	Torquay, Abbey Park	5	4 Aug	2.25	56	2.41
1939	N	Culmstock, The Knap	6	2 Sep	0.90	40	1.35
1939	R	Silverton, Parsonage Lane	6	20 Aug	2.00	55	2.18
1939	VR	Teignmouth, Woodlands	5	21 Jly	2.38	60	2.38
1939	R	Ottery St Mary, Broad Oak	7	21 Aug	1.50	60	1.50
1939	N	South Brent, Brent Moor	3	20 Aug	0.98	60	0.98
1939	R	Teignmouth, Den Gardens	5	21 Jly	1.82	90	1.21
1940	N	Ashburton, West Street	4	27 Apr	1.12	75	0.90
1942	N	West Alvington	3	19 Dec	1.10	30	2.20
1943	N	Stoke Cannon, Rewe	6	12 Sep	0.75	15	3.00
1943	N	Tiverton, St Aubyn's Park	6	12 Sep	0.77	28	1.65

Area/Year	Classification	Station	Drainage area	Date	Amount *inches*	Duration *minutes*	*inches/hour*
South Devon (Contd)							
1943	R	South Brent, Beechfield	3	12 Sep	1.69	30	3.38
1943	R	South Brent, Millswood	3	12 Sep	1.65	30	3.30
1943	N	Torquay, Abbey Park	5	14 Sep	1.43	120	0.71
1946	R	Cullompton	6	23 Jun	2.35	45	3.13
1948	N	Hawkchurch, Castle House	7	30 Jly	0.78	20	2.34
1949	VR	Cullompton	6	22 Sep	2.40	75	1.92
1949	R	Exeter Airport	6	26 Aug	1.35	40	2.03
1951	N	Kenton, The Vicarage	6	22 Jly	1.09	35	1.87
1952	R	Kenton, The Vicarage	6	13 Jun	1.13	25	2.71
1952	R	Hemyock, Culm Davy House	6	6 Jly	1.69	30	3.38
1952	VR	Honiton, Cotleigh House	7	19 May	2.56	48	3.20
1952	N	Culmstock, Woodgate Farm	6	6 Jly	1.72	105	0.98
1954	N	Exeter Airport	6	22 Aug	1.19	68	1.05
1955	N	Paignton, Victoria Park	4	18 Aug	0.63	22	1.72
1955	N	Chagford, Yellam Cottage	5	6 Jun	0.84	25	2.02
1955	N	Kenton Vicarage	6	6 Jun	0.97	33	1.76
1955	N	Hemyock, Culm Davy House	6	17 Jly	1.13	60	1.13
1955	N	Culmstock	6	12 Jly	1.11	60	1.11
1955	N	Exeter, Heavitree	6	18 Jly	1.34	79	1.02
1956	R	Beer, Set Fair	7	19 Jly	1.29	30	2.58
1956	N	Crediton, Okefield	6	16 Jly	0.93	30	1.86
1956	N	Exeter Airport	6	18 Jly	0.80	30	1.60
1957	N	Kenton Vicarage	6	18 Jly	0.76	18	2.53
1958	N	Shillingford Rectory	6	6 Jun	1.39	120	0.69
1958	N	Chagford, Thornworthy	5	19 Aug	1.20	120	0.60
1958	N	Shillingford Rectory	6	3 Oct	1.45	120	0.73
CORNWALL RIVER BOARD							
Cornwall							
1877	N	Camborne	1	14 Aug	0.77	30	1.54
1886	N	Falmouth Observatory	2	5 Sep	1.00	20	3.00
1904	N	Helston, Tenderah	2	15 Oct	0.80	30	1.60
1905	N	St Austell, Bunney Mine	2	16 Jun	1.25	95	0.79
1907	N	Redruth, Trewirgie	1	26 Sep	1.00	45	1.33
1911	R	Antony Vicarage	3	29 Jly	1.00	15	4.00
1911	N	Launceston, Hexworthy	3	31 May	1.01	45	1.35
1911	N	Launceston, Landue	3	1 Jun	1.75	120	0.87
1920	N	Newquay, Mount Wise	1	17 Oct	1.19	90	0.79
1920	R	Cadgwith, Coastguard Station	2	17 Oct	1.90	120	0.95
1924	N	St Mellion Rectory	3	21 Jun	1.32	120	0.66
1926	R	Gwennap, Trevince	2	18 Jly	1.80	50	2.16
1926	N	Newquay, Mount Wise	1	18 Jly	1.71	110	0.93
1926	N	Wadebridge, Bryn	1	18 Jly	1.59	120	0.79
1931	N	Launceston, Hexworthy	3	5 Aug	0.98	25	2.35
1933	N	Liskeard, Penmilder	2	15 Jly	1.15	35	1.97
1933	R	Fowey	2	11 Aug	1.70	60	1.70

Area/Year	Classification	Station	Drainage area	Date	Amount *inches*	Duration *minutes*	Rate *inches/hour*
Cornwall (contd)							
1936	N	Launceston, Pendruccombe	3	21 Jun	0.75	27	1.67
1936	VR	Bodmin, Castle Hill House	1	29 Jun	2.98	60	2.98
1936	R	Kilkhampton	1	30 Jun	2.00	120	1.00
1939	N	Launceston, Hexworthy	3	19 Aug	1.40	60	1.40
1940	N	Padstow, Cross Street	1	13 Jly	1.00	30	2.00
1943	N	Lelant	1	13 Sep	1.17	60	1.17
1943	N	Padstow, Cross Street	1	14 Sep	1.32	75	1.06
1949	R	Delabole	1	6 Sep	1.95	75	1.56
1956	N	Launceston, Landue	3	26 Aug	1.40	45	1.87
1956	VR	Liskeard, Penmilder	2	19 Jly	3.04	120	1.52
1956	R	Liskeard, Treventon	2	19 Jly	2.43	120	1.21
1958	N	Truro Waterworks, Lower Tregurrow	2	19 Aug	1.25	65	1.15
1958	N	Liskeard, Minions	2	19 Aug	1.90	60	1.90
1959	N	Liskeard, Treventon	2	10 Aug	1.80	120	0.90
1959	N	St Mawgan Airfield	1	10 Aug	1.71	105	0.98
1959	N	St Mawgan Airfield	1	10 Aug	1.72	120	0.86
South Devon							
1898	N	Plymouth	2	2 May	0.93	25	2.23
1898	N	Plymouth	2	2 May	1.13	45	1.51
1908	R	Milton Abbot, Endsleigh	2	30 Jun	1.52	30	3.04
1911	VR	Beer Alston, Rumleigh	2	27 May	2.61	90	1.74
1929	N	Lifton, Kelly House	2	5 Oct	1.00	60	1.00
1933	R	Roborough, Maristow Gardens	2	11 Aug	1.40	35	2.40
1934	R	Yelveston, Oakfield	2	22 Jly	2.00	120	1.00
1936	N	Mary-Tavy, Blackdown	2	24 Jun	0.84	35	1.44
1949	N	Horrabridge, Dostabrook	2	14 May	1.51	120	0.75
1952	N	Plymouth, Mount Batten	2	15 Aug	0.98	48	1.23
1955	N	Plympton, Little Woodford	2	12 Aug	1.19	60	1.19
1958	VR	Plymouth, Mount Batten	2	3 Jly	2.56	77	1.99
1959	N	Plymouth, Mount Batten	2	10 Aug	1.31	120	0.65

APPENDIX II

River Divisions

County	Drainage Areas	River Divisions
Dorset	2	Axe
Somerset	5	Exe
	6	Axe
North Devon	1	North coast streams
	2	Taw
	3	Torridge
	4	West coast streams
	5	Exe
South Devon	3	Erm and coast
	4	Dart
	5	Teign
	6	Exe
	7	Axe and coast
Cornwall	1	Camel & NW coast streams
	2	Fowey & SE coast streams
	3	Tamar & coast
	4	Insular
South Devon	1	Parrett
	2	Tamar & coast

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Fig 1 Average Monthly Rainfall as a percentage of Average Annual Rainfall 1916—50

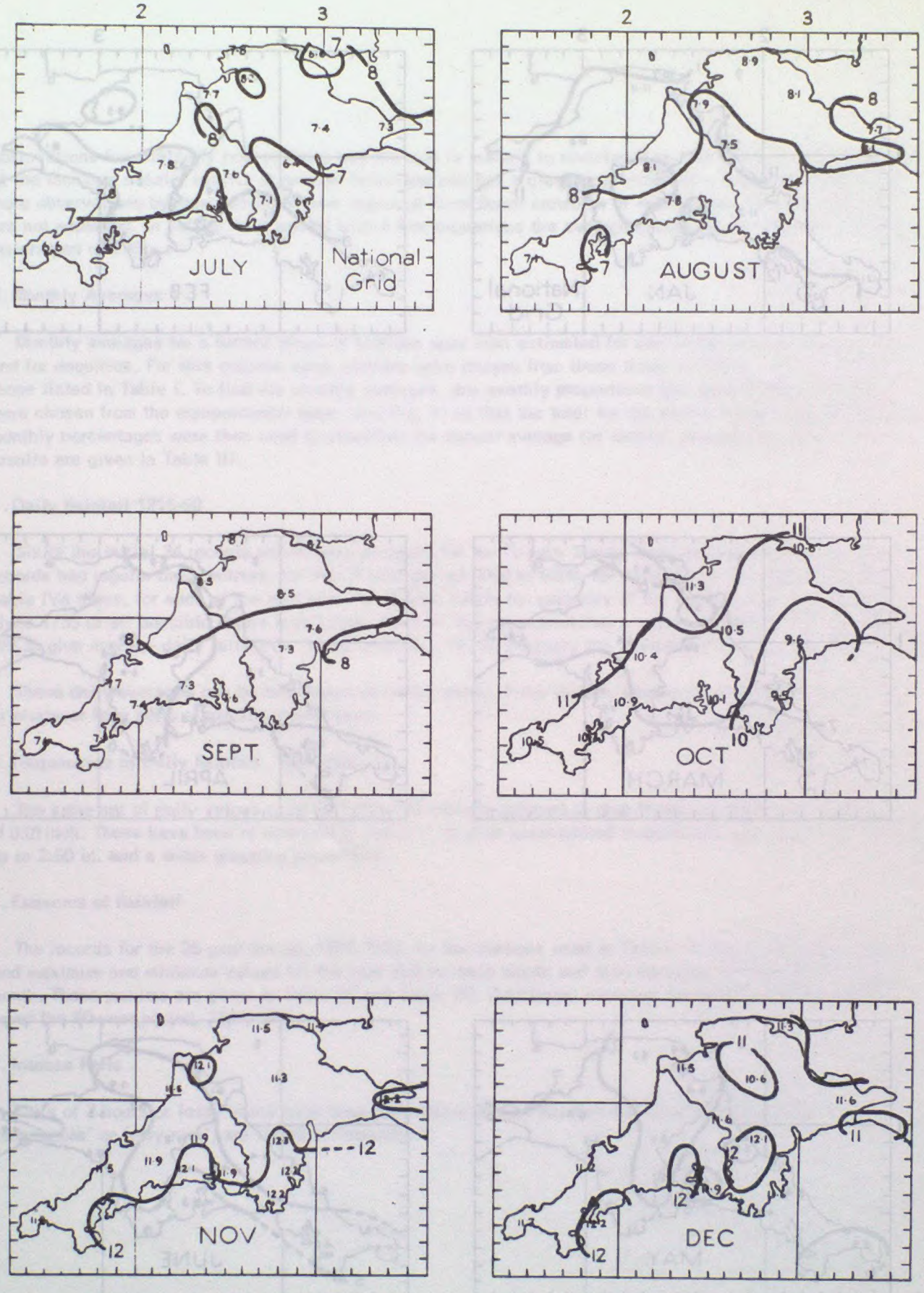

Fig 1 Average Monthly Rainfall as a percentage of Average Annual Rainfall 1916—50

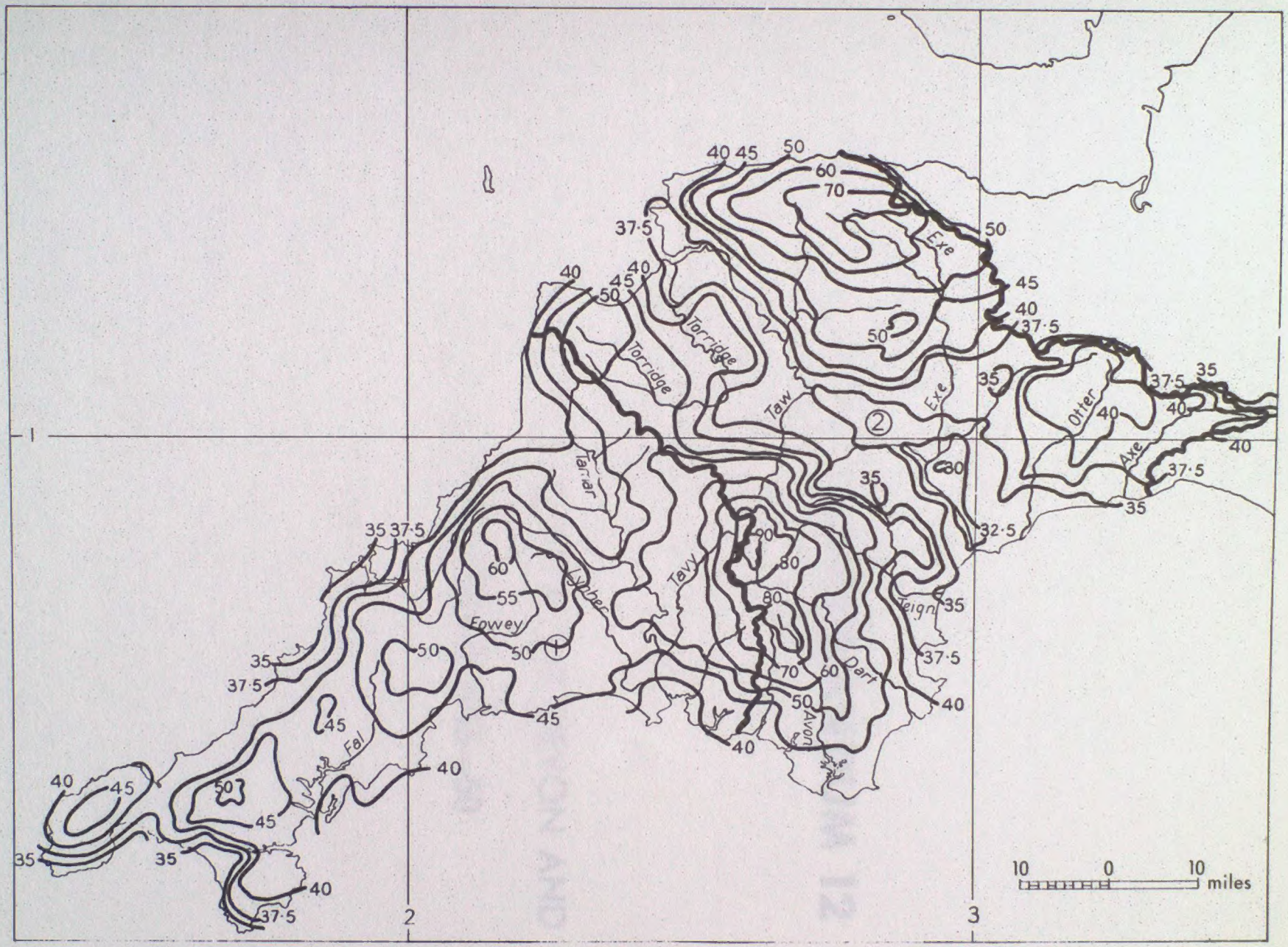

Fig 2 Average Annual Rainfall 1916—50, (in inches) over the River Board areas of ① Cornwall ② Devon